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!File: LABIOCOM.FOR ! Version 'V04-000'

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Logical Function LABIO\_INIT( PRIVILEGE )

This routine is used to attach a LABIO user program to the LABIO system. It associated the two event flag clusters and maps to the LABIO global data section.

INPUT:

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PR VILEGE - Privileged LABIO users can set this to 1 to allow write access to the data base.

All others must set this to 0.

OUTPUT:

None - Currently will always return with success code. If an error occurs, FATALERR is called to display

the error messages and STOP THE PROCESS!

Include 'LABCHNDEF.FOR'
Logical\*4 SYS\$ASCEFC,SYS\$MGBLSC,SUCCESS,SYS\$WAITFR
External SEC\$M\_WRT

! Create event flag cluster EF\_NOTIFY and associate with event flags 64-95 ! These are used to notify the Data Acquisition process.

SULCESS = SYS\$ASCEFC( %VAL(EF\_NOTIFY\_1), EF\_NOTIFY\_CLSTR,,)
If ( .not. SUCCESS)

Call FATAL\_ERROR( SUCCESS, 'CREATING EVENT FLAG CLUSTER')

! Create event flag cluster EF\_STATUS and associate with event flags 96-127 ! These are used to notify and report the status of the user buffers

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FATAL_ERROR - FATAL ERROR HANDLER
        This routine is used to report a fatal error and exit the image
        INPUT: ERROR_CODE - SYSTEM ERROR CODE TO REPORT
                ERROR_MESSAGE - ERROR MESSAGE TO BE PRINTED
        OUTPUT: NONE
        >>>> THIS ROUTINE DOES NOT RETURN <<<<<
        FUNCTION: TYPEs the message
                  'process name-FATAL ERROR - error_message'
                 Then prints system message corresponding to <a>ERROR_CODE</a>
                 finally, exits image by calling LIB$STOP
        Subroutine FATAL_ERROR(error_code,error_message)
        Integer*4 ERROR_CODE
Character ERROR_MESSAGE*(*)
        Logical*4 SUCCESS, SYSSCREMBX, SYSSGETJPI
        Intraer+2 JPI2(8), PROCESS_NAME_L
        Integer*4 JPI4(4)
        Character*15 PROCESS_NAME
        Equivalence (JPI2, JPT4)
        Parameter JPIS_PRCNAM='31C'X
        Get the process name
        JPI2(1) = 15
                                         !Number of elements in name
        JPI2(2) = JPI_PRCNAM
                                         !Want process name
        JPI4(2) = %Loc(PROCESS_NAME)
                                         Address of process name length
        JP14(3) = %Loc(PROCESS_NAME_L)
        JPI4(4) = 0
                                         !Terminate list
        Call SYS$GETJPI(,,,JPI4,,,)
 Print the process name and error message
        Type 100, PROCESS_NAME(1:PROCESS_NAME_L), ERROR_MESSAGE
 Print the error message corresponding to ERROR_CODE and exit
        Call LIB$STOP( %Val(ERROR_CODE) )
100
        format(' 'A,' - FATAL ERROR ',A)
        Stop
        END
![End of File]
```

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